

10/594085

PN - JP10163730 A 19980619  
PD - 1998-06-19  
PR - JP19960316267 19961127  
OPD - 1996-11-27

TI - AUTOMATIC TRACKING ANTENNA AND TRACKING METHOD FOR THE SAME  
IN - AZUMA KAZUTAKA; KAWABATA KAZUYA  
PA - MURATA MANUFACTURING CO  
IC - H01Q3/24 ; H01Q19/10

WPI / DERWENT

TI - Automatic tracking antenna structure for BS, CS communication - has synthesis circuit that synthesizes signals output from switching circuit and converter circuit which performs frequency conversion of synthesized signals

PR - JP19960316267 19961127

PN - JP10163730 A 19980619 DW199835 H01Q3/24 008pp

PA - (MURA ) MURATA MFG CO LTD

IC - H01Q3/24 ;H01Q19/10

AB - J10163730 The structure (10) includes a spherical luneberg type antenna (1) which has several primary radiation units (2) that are arranged on focal area (1a) of the antenna. The primary radiation devices are connected to a switching circuit (3) which includes several individual switches for each signal received from the radiation units.

- The output of switching circuit is input to a signal line path synthesis circuit (4) which synthesizes the input signals. A converter circuit (5) performs frequency conversion of signals received from the signal line path synthesis circuit. A control circuit (6) controls the switching operation of the switching circuit.

- ADVANTAGE - Miniaturizes size of automatic tracking antenna. Improves tracking velocity.

- (Dwg.1/11)

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AN - 1998-404855 [35]

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IN - KAWABATA KAZUYA;AZUMA KAZUTAKA

PA - MURATA MFG CO LTD

TI - AUTOMATIC TRACKING ANTENNA AND TRACKING METHOD FOR THE SAME

AB - PROBLEM TO BE SOLVED: To provide an automatic tracking antenna with which the number of parts is reduced, miniaturization and lightening in weight can be attained and tracking speed is accelerated.

- SOLUTION: Plural primary radiators 2 are arranged at fixed intervals on a hemispherical focal area 1a of a Luneberg antenna 1, first of all, the levels of received signals of the primary radiators 2 are successively confirmed in a short time, and the primary radiator 2a having the maximum level of received signal is selected. Next, the cycle to receive the signal from this primary radiator 2a for a fixed period is repeated. Thus, the high level signals can be continuously received at all times. Besides, components can be remarkably reduced, the miniaturization, lightening in weight and price down of antenna can be attained and further, the tracking speed of automatic tracking antenna can be accelerated.

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EPCDOC / EPO

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